

IN THE SPECIFICATION

At pages 5 and 6, please delete Table 1 in its entirety and replace it with the following amended Table 1.

TABLE 1

Symbol	Meaning	Unit
a	Acceleration	feet/s <sup>2</sup>
a(t)	Acceleration as a function of time	feet/s <sup>2</sup>
B <sub>i</sub> (t)	brake functions	feet/s <sup>2</sup>
C <sub>l</sub> (t)	Braking effect caused by lateral friction when train is in curve	feet
C <sub>p</sub> (t)	Braking effect caused by weight increase when train is in curve	feet
D	distance	feet
D(t)	dynamic brake	pounds
D <sub>C</sub>	degree of a curve (angle for 100 feet of track) <sup>1</sup>	degrees
E <sub>i</sub> (t)	Elevation function	Feet
F	Force	pounds
g	Gravitational acceleration ( $9.82 \text{ m/s}^2 = 32.218 \text{ feet/s}^2$ )	Feet/s <sup>2</sup>
K <sub>a</sub>	Corrective factor for the effect of aerodynamic friction	lbs/feet
K <sub>bi</sub>	brake function coefficients	no unit
K <sub>d</sub>	Corrective factor for the effect of dynamic brake application	no unit
K <sub>ei</sub>	Corrective factor for the effect of elevation change on segment <i>i</i> of the train	s <sup>-2</sup>
K <sub>l</sub>	Corrective factor for the effect of lateral friction when train is in curve	s <sup>-2</sup>
K <sub>p</sub>	Corrective factor for weight increase when train is in curve	s <sup>-2</sup>
K <sub>r</sub>	Corrective factor for friction of a train rolling on straight horizontal track	feet/s <sup>2</sup>
K <sub>ri</sub>	release function coefficient	no unit
K <sub>rv</sub>	Dynamic corrective factor for friction of a train rolling on straight horizontal track	s <sup>-1</sup>
K <sub>t</sub>	Corrective factor for the effect of throttle application	no unit
L	total train length	feet
L <sub>i</sub>	length of segment <i>i</i>	feet
l <sub>ij</sub>	length of the segment <i>i</i> section <i>j</i> of the train	feet
M	total train mass	lbs

<sup>1</sup> The field CURVE in track database.

Symbol	Meaning	Unit
$M_i$	mass of segment $i$	
$m_{ij}$	mass of the segment $i$ section $j$ of the train	lbs
$N_{ax}$	Number of powered axles	
$p(t)$	Pressure in brake pipe measured at front locomotive	psi
$P_{max}$	Maximum pressure in brake pipe	psi
$R$	curve radius	feet
$R_i(t)$	release functions	feet/s <sup>2</sup>
$L$	train length	feet
$T(t)$	traction force	pounds
$v$	speed	feet/s
$v(t)$	speed as function of time	feet/s
$vd$	speed recorded in database	feet/s
$W$	total train weight	lbs
$w_{ij}$	weight of the segment $i$ section $j$ of the train	lbs